



WWJMRD 2019; 5(5): 81-84  
www.wwjmr.com  
International Journal  
Peer Reviewed Journal  
Refereed Journal  
Indexed Journal  
Impact Factor MJIF: 4.25  
E-ISSN: 2454-6615

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## Training for seafarers aiming at the requirements of the Industry Evolution 4.0

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### Abstract

The demand for Vietnamese maritime personnel is very large. The maritime industry in the near future needs to strengthen the linkage between shipping businesses and training institutions. Vietnam has more than 3,000 km of coastline and about 1 million km<sup>2</sup> of exclusive economic zone, located on the corridor. East-west transport corridor is very convenient for marine economic development. According to the statistics of the Vietnam Ship and Crew Registration Board - Vietnam Maritime Bureau as of June 2016, our crew members currently have about 20,500 people, from captains, deputy chiefs, chief engineers, two machines, deck officers, machine officers to the sailors, the main mechanic, electric officers, electricians, water shifts, shift workers. The training of high quality maritime personnel is always considered an important foundation. Therefore, the maritime industry in the future needs to strengthen the connection between shipping businesses and training institutions.

**Keywords:** certification, seafarers, maritime

### 1. Introduction

At present, the training of crewmembers, drivers of inland waterway transport means and holding the title of firefighters is carried out according to the following regulations:

- Under the Education Law and the Law on Higher Education: there are university and college majors in ship control, ship management, transport management. Graduates will be awarded university or college degrees.
- According to the Law on Vocational Education (now the Law on Vocational Education): there are collegial, intermediate and primary degrees in ship control, ship management and waterway management. Learners after graduation will be awarded a degree, intermediate or primary.

In recent years, especially after the promulgation of the Transport Laws of the inland waterway, the shipping industry has developed strongly in terms of volume, type and shipping lines, types of goods and locations activity. Along with the increasing development of water transport, the number of means and crews, the driver of inland waterway means is also growing. Over the past years, the Ministry of Transport and Vietnam Inland Waterway Department have implemented many effective measures to ensure the inland waterway traffic inspection and the inland waterway traffic control system has been initially controlled but still happens serious accidents. There are many causes of accidents, including those involving the driver: the driver does not have a degree, professional certificate combined crews, riders are critical factors contributing to the safety of inland waterway transport. Therefore, improving the quality of training crew, inland waterway transport means is an important factor in ensuring the accidents in inland waterway. Adopting recommendations of organizations and individuals at the meeting to meet the shipping enterprises, the Vietnam Inland Waterway Administration has reviewed the remaining problems and shortcomings proposed and proposed the Ministry of Transport to amend and supplement the system of relevant legal documents in order to create the most favorable conditions for organizations and individuals in transportation business. Along with the program of training crewmembers, inland waterway transporters are being developed to develop modular program. In this way, the content of the training program becomes more flexible, rigid, rigid, always up to date

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with changes in science and technology, socio-economic and training practical, relevant for learners and the needs of the labor market. This content was included in the Circular replacing the Circular No 57/2014/TT-BGTVT dated October 24, 2014 by the Minister of Transport and Communications regulating material and technical facilities of vocational training institutions and chapters to train crews and drivers of inland water transport means. In addition, training programs, the Ministry of Banking exam questions and answers in the training, examinations, examinations, granting of diplomas and professional certificates to crew members and drivers of inland waterway means have been applied unified throughout the country. Accordingly, organizations and individuals are wishing to visit the website of the Department to download research and study materials. Waterway transportation colleges also regularly organize training courses for crews and drivers of enterprises wishing to register for training.

In accordance with the Law on Inland Waterway Traffic in 2005 and the Law on Amendment of Addition some number of clauses, the Law on Inland Waterway Transport in 2014, the Minister of Transport request the conditions of crew training establishments transport; Enrollment regulations; Content, training programs; CCCM types; Regulation on examinations, grant, renewal, CCCM for crew members, drivers. Ministry of Transport has coordinated with other ministries, agencies, agencies and localities to build the system of legal documents. Laws and guidelines for the implementation of the Inland Waterway Navigation Law. Up to now, the system of legal documents has been issued to meet the practical requirements in training crew members, drivers, specifically:

Vietnamese Inland Waterway Administration is the state management agency in charge of inland waterway transport nationwide and the Departments of Transport of provinces and cities directly under the Central Government manage the training in localities and establishments. Vocational training manages training at their facilities. In recent years, the Inland Waterway Administration of Vietnam has worked closely with the Departments of Transport of provinces and cities directly under the Central Government in inspecting and evaluating the grant of certificates of vocational training establishments qualified for the training of crewmembers. , The driver of inland waterway transport means for job-training establishments, request job-training establishments to announce the training and tuition plans, inspect, examine and supervise job-training establishments in the implementation of the provisions of Laws and plans, content, training programs

The Inland Waterway Administration of Vietnam has initially deployed the application of information technology in the management of training of crewmembers and pilot vessels of inland waterway transport means. At present, management agencies from the central to local level are conducting the update data on crewmembers, drivers of inland waterway transport means nationwide. On the other hand, implementing the online public service delivery plan for the Ministry of Transport's inland waterway administrative procedures, the Vietnam Inland Waterway Department strives to 15/12/2015 to apply Level 3 online services for 10 procedures related to the training of crewmembers, drivers of inland waterway transport means. The network of vocational training of crewmembers is created out to implement the policy of socialization of

education and the socialization of education in the field of vocational training. It is abundant and wide nationwide under many different ministries, agencies such as Ministry of Transport, Ministry of Defense, People's Committees of provinces and cities, Vietnam Inland Waterways Administration, City, Department of Labor - Invalids and Social Affairs, enterprises. As of the end of October 2015, there were 39 vocational training centers in the nationwide assessed and granted certificates of qualified students of the boat ranger training. Of which, there are 15 in the North, and seven in the Central, and 17 in the South. The training facilities of the crewmembers, the driver of inland waterway transport means has been formed and strongly developed along the direction of socialization. Of the 39 establishments, there are 01 establishment under the Ministry of Communications and Transport, 02 establishments under the Vietnam Inland Waterways Administration, 25 establishments in the provinces, cities, 03 establishments under the Ministry of Defense, 08 establishments under the companies. Up to the end of October 2015, there were 312,534 certification of trainers, crewmembers, driver who trained in the nationwide. Inside:

- Captains of all kinds: 110,189
- Engineer: 40,439
- CCCM and certificate: 161,906

Regular and irregular inspections, and monitoring of the training of crewmembers and the pilot of inland waterway transport means shall be maintained. Annually, the Ministry of Communications and Transport, Vietnam Inland Waterways Administration shall set up inspection teams to inspect and supervise this work in localities and promptly handle violations.

## 2. Evaluation of current status

*Regarding the elaboration of legal documents and law dissemination and education*

The Ministry of Transport has coordinated with other ministries, agencies, ministries and localities to develop a system of legal normative documents and guidelines for the implementation of the Law. So far, the system of legal normative documents has been issued to meet the practical requirements of training crewmen and riders, thereby creating a complete legal corridor to promote and raise High quality training crew, driver inland waterway transport means. In addition, the Ministry of Transport regularly reviews the system of relevant documents to promptly amend, supplement or synthesize the report proposing competent agencies to amend and supplement in the direction of creating favorable conditions. Most for organizations and individuals to participate are in learning. Along the work building the perfect system of legal documents, every year, Vietnam Inland Waterways Administration often organizes conferences in areas across the country to promote communication, dissemination and education of the traffic laws to managers, businesses and the public. The new documents, the new content related to the field of traffic safety, including the training of crew members, the pilot of inland waterway transport means was propagated to the organizations and individuals concerned. Based on the system of legal documents promulgated, Vietnamese Inland Waterway Administration has been active in developing plans and implementing a number of solutions. Monitoring and supervision of the implementation process is also particularly respected by

Vietnam Inland Waterways Administration, and all examination councils in 2015 are monitored publicly and transparently.

#### *About the training*

Over the past years, the training facilities of the crew members, the driver of inland waterway transport means have made great efforts, focused investment and upgrading: The teachers increased in quantity and quality; the program of training crewmembers and steersmen has been renovated to suit the practical situation; Facilities, technical equipment increased in both quantity and quality. Up to now, most of the job-training establishments of crews and drivers of inland waterway transport means have satisfied the conditions on material foundations, technical equipment and learning tools as prescribed.

However, besides the achievements, human resources training in traffic safety in the field of safety still reveals shortcomings which need to be overcome in order to meet the requirements of improving the quality of training of the crew. The driver responds to the request in the new situation, namely:

+ At present, there are 39 training establishments qualified for vocational training and certification of crews and drivers of inland waterway transport means. However, the training centers are distributed unevenly, making it difficult for learners to attend school.

+ In the management of training: Currently, the database on license management, professional certification and crew and driver of inland waterway transport means is not completed yet, has not been agreed between training establishments nationwide, leading to the control.

### **3. Proposing the solutions**

#### *Regarding legal documents and propaganda, dissemination and education of law*

Vietnamese Inland Waterway Administration should regularly review legal documents relating to the training of crew members and the pilot driver in combination with gathering comments from local authorities, Units and individuals. On that basis, it is necessary to synthesize, review, revise and propose competent authorities to amend, supplement and finalize relevant regulations in the direction of overcoming shortcomings and shortcomings. Manage and create the most favorable conditions for people to enforce the law.

In parallel with the development of legal normative documents, legal dissemination and education should be well understood by state management agencies from the central to grassroots levels. The important role of propaganda, advocacy, dissemination and education on traffic law in general and the regulations on train crews and drivers of inland waterway transport means in particular. From this, it is necessary to study, analyze and classify the objects so as to have appropriate propaganda methods in order to incorporate the Law on Traffic and the regulations on the training of crew members and drivers of inland waterway transport means to the people.

#### *For the management and training of the Ministry of Communications and Transport and the Inland Waterway Administration of Vietnam*

To build and complete a database on license management, professional certification and crewmembers, pilot of inland

waterway transport means. Strengthen the organization of reviewing and checking the morphology and criteria of seafarers and crews' titles for all inland waterway transport means, thereby synthesizing, analyzing and assessing the quality of crew members and the driver of inland waterway transport means to specific quality improvement solutions. Continuing to study and renovate crew management, training, examinations and licensing, professional certification for crews, drivers of pilot ships to meet practical requirements, constantly improve the quality of crew training. And the driver.

#### *For craft training establishments, crews of inland waterway means*

Strengthen facilities, technical equipment to meet the requirements of integration and the needs of the labor market. Strengthen training and standardize the contingent of teachers to meet national standards, step by step reaching regional and international standards. Updating and supplementing training programs is regularly created out to ensure the scientific, modern, systematic, practical and flexible response to changes in the labor market; Reasonable distribution of time between the masses of knowledge and professional skills; To ensure the smooth transition between vocational education levels and other training levels in the national education system; When students move from lower level to higher level in the same discipline or when they transfer to another discipline, they do not have to re-learn the contents. Expand the forms of training, retraining; Strengthening the socialization of training; Strengthen coordination and linkages between units using human resources and training and education facilities to ensure that human resources have knowledge and skills close to actual work needs and efficient use of human resources. The force has been trained. The Ministry of Communications and Transport requires that waterway means in the port area or wharf ensure the integrity, leakage, spillage, permeability, spillage of goods and waste from vehicles into the environment.

### **4. Conclusions**

Vietnamese seafarers in addition to strong points such as being able to quickly acquire professional knowledge, easy to socialize in multi-national ships ... but the most basic limitation of Vietnamese crew members is foreign language and strike. Career and health. In order to ensure the quality of export crew members, it is necessary to regularly train skills, improve professional skills, improve professional English and practice industrial working style. In addition, reputable seafarers export companies should guide crew members in their behavior, customs and practices, especially their ability to integrate on a multi-national ship. Crew members' export is putting an urgent need to strengthen officers training and quality of crew members. This requires maritime schools to continue to improve the training and training program, improve the practice time on training ships, creating initial conditions for students to become familiar with the equipment and understand the rules. Operation and preservation process. Long-term strategic objectives are training, quality improvement for Vietnamese seafarers to be recognized and certified to meet international quality standards.

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